PFISTERER

RAILWAY CATENARY SYSTEMS

CONTACT WIRE LASER MEASURING DEVICE

For precise measurement of height and lateral position of contact wires.

THE POWER CONNECTION

CABLE SYSTEMS | COMPONENTS | OVERHEAD LINES | RAILWAY CATENARY SYSTEMS

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Maximum precision. Minimum weight.

Highly accurate measuring systems are needed when erecting and maintaining catenary systems. The common measuring systems are often cumbersome and thereby impede transport and handling.

A better option is our contact wire laser measuring equipment. Maximum precision. Minimum weight (14 kg). Perfect handling (fits in a handheld bag for transport).

- The laser beam measures the height of the catenary wire. The value is read straight off the device and can also be stored there.
- Bluetooth (option) can be used to transfer the measurements to a pocket PC or laptop.
- The lateral position (stager) is read off a scale on the guide track of the measuring tube.

Additional benefits.

- Available for normal track gauges (1435 mm) or narrow track gauges (1000 mm). Other track gauges on request.
- Height and lateral position measurement in one.
- Additional measuring scale for the actual track gauge value.
- Sighting device for quickly positioning the laser beam.

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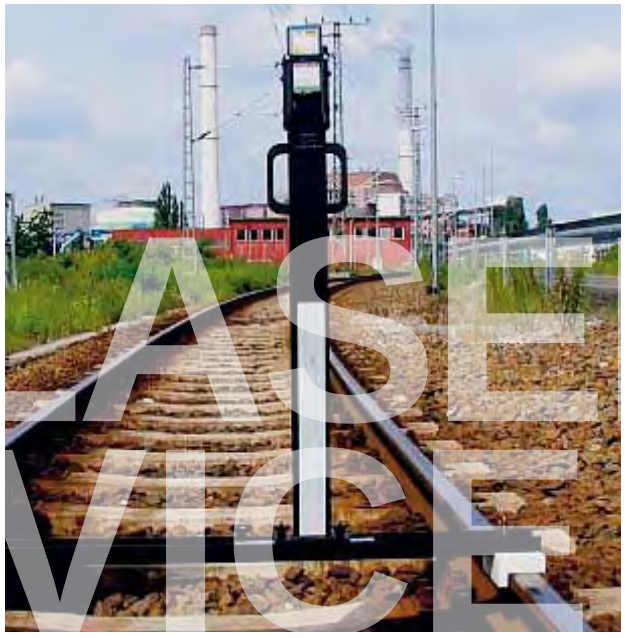

The setup: 6 easy steps to the perfect measuring result.

1. An aluminium rail is laid across the track. The underside of the rail is insulated preventing an electric bridge circuit between the track rails.
2. There is a stop on one side of the aluminium rail. This acts as the fixed point on one of the inside of the track.
3. There is a ruler (millimetre scale) on the other side to measure the track gauge.
4. A slide with folding measuring tube runs along the aluminium rail. The compact laser distance measuring device is secured to the top end of the measuring tube.
5. The measuring tube protrudes 1 m over the rail level. The laser is set such that the length of the measuring tube is added to the value calculated. The value displayed is therefore the actual height of the contact wire above the rail level.
6. Once the laser‘s setting has been adjusted, the height of the contact wire and lateral position (stager) can be measured.

Measurement of contact wire height

- With the laser switched on, the measuring tube is slowly moved on to the aluminium rail until the beam has recorded the contact wire position. This is confirmed by a signal on the display. The sighting device simplifies positioning the laser.
- Straight after the laser has recorded the contact wire, its precise height is displayed.

Measurement of lateral position (stager)

- The lateral position value can be read off the crossbeam ruler, accurate to one millimetre.

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Technical data

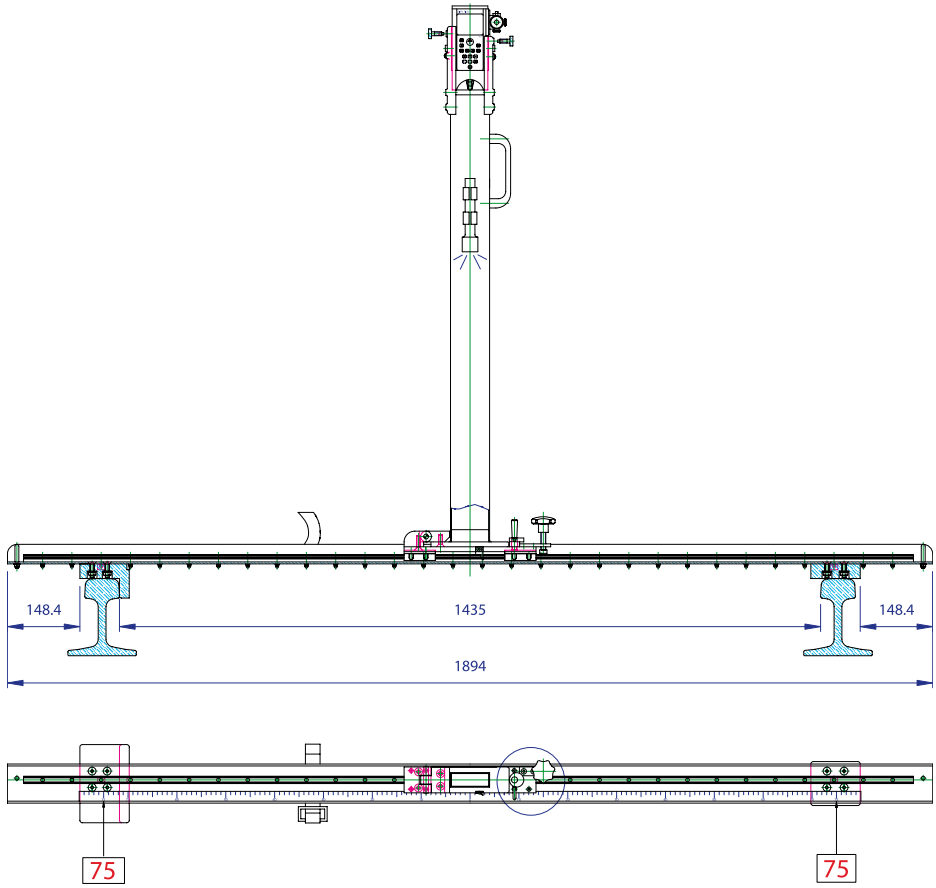
Contact wire height measurement

Range:	1.3 m to 7 m
Resolution:	1 mm
Accuracy:	+/- 5 mm

Contact wire lateral position measurement (stager)

Range:	- 45 cm to + 45 cm
	- 60 cm to + 60 cm
	- 75 cm to + 75 cm
	(other ranges possible)
Resolution:	1 mm
Accuracy:	+/- 5 mm

Weight:	approx. 14 kg
Transport:	in hard-wearing bag, dimensions 250 cm x 25 cm x 18 cm (option: transport case)



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